

AMENDMENTS TO THE SPECIFICATION

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Please replace the paragraph beginning on page 1, line 13, with the following amended paragraph:

As chlorofluorocarbon (CFC), a refrigerant used for a refrigerator, an air-conditioner or the like, has been known as a source material damaging an ozone layer of the stratosphere, ~~researches~~ research on a substitute refrigerant is being actively conducted.

Please replace the paragraph beginning on page 2, line 14, with the following amended paragraph:

Especially, isobutane (R600a) is an environmental-friendly natural gas which does not damage the ozone layer and ~~have~~ has no influence on a greenhouse effect. That is, isobutane (R600a), a sort of a natural gas obtained by refining hydrocarbon gas created in an oil refining process to a high degree of purity, is a refrigerant containing no environmentally detrimental factor.

Please replace the paragraph beginning on page 3, line 21, with the following amended paragraph:

Namely, the lubricant used as the refrigerant oil of the reciprocating compressor needs to have characteristics that it can protect well an oil film even though the refrigerant is dissolved, and should be thermally and chemically stable so as not to react in spite of being in contact with the refrigerant and an organic material metal at a high temperature or at a low temperature, and should have a high level thermal stability so as not to generate a carbon sludge or not to be oxidized at a high temperature part of the compressor.